P

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COUNTY Apache	·	AREA 5 mi S. Dinr	nehotso LEASE NO.	Nav 14-20-0603-8165
WELL NAME Horizon Oi	1 & Gas #]	-24 Navajo-Môbil		
LOCATION <u>NW SW</u> ELEV <u>5225</u> GR <u>5237</u>	SEC 24 KB SP	TWP <u>39N</u> RANGE  JD DATE <u>6-8-67</u>	23E FOOTAGE 1980 STATUS COMP. DATE 7-	TOTAL
CONTRACTOR JCM Dril	ling Co.,	Okla City, Okla		
CASING SIZE DEPTH		= '' <del>-</del>		ROTARY x
13 3/8 369	150 5	SKsNA	DRILLED BY	CABLE TOOL
8 5/8 2571	440	Sks	<del></del>	RESERVOIR
			INITIAL PRO	DUCTION Dry
FORMATION TOPS	DEPTHS	SOURCE L.L. E.L.	REMARKS	
TOMESTION TOTO			SEE FILE - TOO MAN	Y TO LIST
			<u></u>	
		1		
	<u> </u>			
	-			
ELECTRIC LOGS	PE	REFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Borehole Com. Soni				SAMPLE DESCRP. X SAMPLE NO. Farm Cut
Neutron Porosity,				CORE ANALYSIS
Induc. Laterlog				DSTs x
REMARKS Designation	on of Opera	ator - Mobil to Hor	izon	APP. TO PLUGx
		·		PLUGGING REP. x
				COMP. REPORT x
WATER WELL ACCEPTED	ВУ			
BOND CO. Travelers			110'1'W	1315313
BOND AMT. \$ 5,000			ORGANIZATION	N REPORT 5-12-67
FILING RECEISMA		LOC. PLAT x	WELL BOOK ×	PLAT BOOK x
API NO. 02-001-200	36	DATE ISSUED 5-26-	67 DEDICATION	W/2 SW/4
PERMIT NUMBER4	12			

(over)

, i	TOPOM	то	RESULTS	TEM TEST	
·	FROM		1	51 W TOTA 2005 (2011	PCTD 1008#/30 <sup>11</sup>
1	6125	6153	Open 65" Rec	5' M ISIP 2065/30"	FSTF 1770#7 30
	-		CORE	RECORD	
0.	FROM	то	RECOVERY	REMARKS	
				TAL HIGHORY	
				IAL HISTORY	
E S'	TARTED - COM	PLETED	WORK PERFORMED		NEW PERFORATIONS
			ADDITIONAL	LINFORMATION	
			ADDITIONAL		
			ADDITIONAL		
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	WE	LL COMF		R RECOMPI			ANL	VELL 1	LOG				
aw Li ™	ork-	_	Plug Back	[□] Same	Г1	Differ Reser	ent [	Oli	П	Gas	П	Dry	IZI
en 🔡 ö	ror Ll	Deepen		Reser									
perator			of Toyon	<del></del>	Address	D 11.	7		Total	00 70	ng1		
	0i1 & G			:F F 1	Well Num		7, Spea			45 / /	001		
deral, State or l Nava jo-		lumber or n	ame of lessor	if fee lease	1 1-2	_ 1		dcat	•				
ocation	110011				Cou	nty	-						
	rom S &		om W		A	<u>pache</u>							
ec. TWP-Range			ON Bonos	. 22E									
Section Date spudded			9N, Range	Date comple	ted, ready t	o Ei	evation		_ , _	Elevati hd. fla		casing	
6/8/67		7/6/6		produce		(1)	Е. ВКВ. В К.В. 52			G.L.	52	25	feet
otal depth	1 1	P.B.T.D.		_	or triple co	mpletion	?	furnis	sh sepan	ual or trate rep	ort 10	ompletic reach (	on, com-
6452 roducing interv	-1 (-) (on this			Dry Ho		ols used	(interval)	pletio		)ry Ho tools us		terval)	
roducing interv Dry 1		Completion			_		s to T.	i i		one		<u> </u>	
Was this well di	rectionally dr	illed? Was	directional su	rvey made?			ctional surv		Date 1	flied			
Yes			(Rig Su			no			Date 1	filed			
Type of electric	at or other lo	gs run (che Aterole	ck logs filed v	Hole Compo	ission) insated	Sonic	w/Cali	per.		7/6/67	7		
, Sidewal	Neutro	with (	amma Ray	Caliquano	RECORD								
Casing (report	ali strings se	in well-c	onductor, sur									<b></b>	11.3
Purpose	. Size hold	e drilled	Size casing	set Weigh	t (lb./ft.)	De	pth set	Sa	icks ce	ment		Amt. pu	
	15"		13-3/8"				9 K.B.	- <b> </b>	150		.  <u>n</u>	one	
	10	5/8"	8=5/8"			257	71 K.B.	┪──	440	0	. P	ione	
TUBING RECORD LINER RECORD													
Size	Depth set		er set at	Size	Top		Bottom		Sacks	cement	s	icreen (f	(L)
NONE in.	-	nt.	- ft.	_ Ir			T, FRACT	ft.	CENCEN	m gott	E E E E	PECO	RD.
		RATION R	ECORD Depth I	nterval	—l— <del>-</del>		of material		†		th In		
Number per ft	- Size &						-		<u> </u>			- <u>-</u>	
NONE					NO	NE			- <b> </b> -				<u>,</u>
	<u>i</u>		·		PRODUCTION								
Date of first p	roduction	Pro	ducing method	i (indicate if f	owing, gas	lift or p	umping—if	pumpir	ng, shor	& ezia w			
Date of test	Hrs. tested	Choke a	dre Oil	orod. during ter	1	Gas prod. during test   Water prod. during te					į.	l gravit;	y I (Corr
-	a L Coelng	7705776	Cal ted rate	of Pro-  Oll	3. <u> </u>	Gas	MCF				<del></del> -	as oil r	<del></del>
Tubing pressur	re Casing	pressure	duction per		_ bbls.		_ MC	F	-	bbla.	.	-	
Disposition of	gas (state wh	ether vented	i, used for fue	el or sold):									
The second secon			41	r	that I am th	. P	roducti	on M	anage	er			of the
CERTIFICATE		_	OT POYSE	(company),	and that I a acts stated to	m autho	rized by said	d compa	iny to m complete	ake this to the t	repor sest of	t; and th my kno	hat this wledge.
	. 0 <del>1</del> 1 & 6	as Co	on and direction			*******		K (	17				
Horizon	n.Oil.&.G	las Co	on and directio			lere	AI	<u> </u>	J/r	ay	<u> </u>		
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Horizon	n.Oil.&.G	as. Co	on and direction		Sig	•		ONSEI or Reco	RVATI mpletio	n Reper		CONSTRUCTION	INT. 19.15
Horizon	n.Oil.&.G	as Co	on and directio		Sig	•	& GAS C	ONSEI or Reco	RVATI	n Reper		CONS COMM	NL 19 1967

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Terrane T

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24-39N-Z	. JE	DEIAIL OF H	ORMATIONS PENETRATED	·*
Formation	Тор	Bottom .	Description*	<u> </u>
Base Kayenta	630	885	Sand & Shale	
Chinle	885	1705	Sand & Shale	
Shinarupt mp	1705	1763	Sand & Shale	
Moen-Kopi	1763	1860	Sand & Shale	
DeChelley 670'	1860	2530	Sand & Shale May be basal Trias. 55 t	-
Oregon Rock ।पंजा	2530 -	3967	Sand & Shale	
Hermosa (Penn)	3967	4492	Sand & Shale (+1270)	
"A" Zone	4492	4596	Sand & Shale + 745	
"B" Zone	4596	4709	Sand & Shale + 641	
"C" Zone	4709	4833	Sand & Shale + 528	
"D" Zone	4833	4969 -	Sand & Shale + 404.	
"E" Zone	4969	5096	Sand & Shale + 268	
"F" Zone	5096	5170 🦸	Sand & Shale + 141	
"G" Zone	5170	5266	Sand & Shale + 67	
Molas	5266	5344	Sand & Shale - 29	
Mississippi	5344	5685	Sand & Shale -107	
OuRay (Devonian)	5685	5786	Sand & Shale - 448	
Gilbert	5786	6017	Sand & Shale -549	
McCracken	6017	6121	Sand & Shale - 780	
Aneth	6121	6265	Sand & Shale - 874	
Bright Angel				
— (Pre Cambrian)	6265	6340	Sand & Shale - 1029	
Tapeats	6340	6443	Sand & Shale - 1103	
PreCambrian	6443	6452	Sand & Shale - 1206	
T.D.	6452	:		
	-			
ge				-
	ļ	1		

<sup>\*</sup> Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

#### INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Weil Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

LORESTE

OWNER!

## ACLEATION TO ABANDON AND PLACE

LOCATION 1980' from South line and 660' from west line  TYPE OF WELL Dry
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease. Nava jo-Mobil
SURVEY Twp. 39N, Rge 23E SECTION 24 COUNTY Apache  LOCATION 1980' from South line and 660' from west line  TYPE OF WELL. Dry TOTAL DEPTH 6452  ALLOWABLE (H Assigned) Noen - Dry Hole  LAST PRODUCTION TEST OIL (Bbls.) WATER - (Bbls.)  GAS - (MCF) DATE OF TEST -  PRODUCING HORIZON None - Dry Hole PRODUCING FROM - TO -  1. COMPLETE CASING RECORD - TO -  1. COMPLETE CASING RECORD - TO -  2. FULL DETAILS OF PROPOSED PLAN OF WORK Cement Plugs: 5975' to 6150'  5300' to 5400'  3900' to 5400'
LOCATION 1980' from South line and 660' from west line  TYPE OF WELL Dry
TYPE OF WELL. Dry (OH, Gas or Dry Hole)  ALLOWABLE (If Assigned) Noen - Dry Hole  LAST PRODUCTION TEST OIL (Bbls.) WATER - (Bbls.)  GAS - (MCF) DATE OF TEST - TO -
ALLOWABLE (If Assigned) Noen - Dry Hole  LAST PRODUCTION TEST OIL (Bbls.) WATER - (Bbls.)  GAS - (MCF) DATE OF TEST - TO -
ALLOWABLE (If Assigned) Noen - Dry Hole  LAST PRODUCTION TEST OIL (Bbls.) WATER - (Bbls.)  GAS - (MCF) DATE OF TEST - TO -
LAST PRODUCTION TEST OIL (Bbls.) WATER - (Bbls.)  GAS - (MCF) DATE OF TEST - PRODUCING HORIZON None - Dry Hole PRODUCING FROM - TO - 1. COMPLETE CASING RECORD  13-3/8" set @ 369' K.B.  8-5/8" set @ 2571' K.B.  2. FULL DETAILS OF PROPOSED PLAN OF WORK  Cement Plugs: 5975' to 6150'  5300' to 5400'  3900' to 4000'
GAS - (MCF) DATE OF TEST - PRODUCING HORIZON None - Dry Hole PRODUCING FROM - TO - 13-3/8" set @ 369' K.B.  8-5/8" set @ 2571' K.B.  2. FULL DETAILS OF PROPOSED PLAN OF WORK Cement Plugs: 5975' to 6150' 5300' to 5400' 3900' to 4000'
PRODUCING HORIZON None - Dry Hole PRODUCING FROM - TO - 1. COMPLETE CASING RECORD
1. COMPLETE CASING RECORD  13-3/8" set @ 369' K.B.  8-5/8" set @ 2571' K.B.  2. FULL DETAILS OF PROPOSED PLAN OF WORK  Cement Plugs: 5975' to 6150'  5300' to 5400'  3900' to 4000'
13-3/8" set @ 369' K.B.  8-5/8" set @ 2571' K.B.  2. FULL DETAILS OF PROPOSED PLAN OF WORK.  Cement Plugs: 5975' to 6150'  5300' to 5400'  3900' to 4000'
8-5/8" set @ 2571' K.B.  2. FULL DETAILS OF PROPOSED PLAN OF WORK.  Cement Plugs: 5975' to 6150'  5300' to 5400'  3900' to 4000'
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2. FULL DETAILS OF PROPOSED PLAN OF WORK  Cement Plugs: 5975' to 6150'  5300' to 5400'  3900' to 4000'
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Cement Plugs: 5975' to 6150'  5300' to 5400'  3900' to 4000'
5300' to 5400' 3900' to 4000'
3900' to 4000'
organ occasi
2550 <sup>t</sup> to 2650 <sup>t</sup>
Surface Plug and Marker
If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outlin
proposed procedure above.
DATE COMMENCING OPERATIONS. 7/6/67
NAME OF PERSON DOING WORK Halliburton ADDRESS Farmington, N.M.
CORRESPONDENCE SHOULD BE SENT TO Horizon Oil & Gas Co. of Texas
shaft Chang Prod. Mgr.
Title
P.O. Box #7, Spearman, Texas 79081
July 18, 1967
Date
Date Approved 7-20-67  OIL & GAS CONSERVATION CONTROL OF THE PROPERTY OF THE P
Date Approved OIL & GAS CONSERVATION COMMUNICIPATION COMMUNICI
OIL & GAS CONSERVATION COMMISSION File Two Copies
By: JAM Jannuster Form No. 9
Permit No. 412

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FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL (OTHER)

1. Name of Operator	Horizon Oil &	Gas Co. of Te	xas		
2. OIL WELL	GAS WELL	OTHER X	(Specify) Dry H	ole	
3. Well Name Na	vajo-Mobil #1.				
Location 1980	from S line &	ind 660 from W	line		
Sec. 24	391	Rge	23E	County Apache	_, Arizona.
4. Federal, State or India	n Lease Number, or le	ssor's name if fee lease	Indian Leas	se (14-20-0603-8165)	
5. Field or Pool Name	Wildcat				
6. Check Appropriate Bo	ox to Indicate Nature o	f Notice, Report, or Oth	ner Data		
N	OTICE OF INTENTION	TO:	-	SUBSEQUENT REPORT OF:  MONTHLY PROGRESS	
TEST WATER SHUT-0	FF PULL OR	ALTER CASING	WATER SHUT-OFF	REPAIRING WELL	<del>  </del>

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

NOTICES AND REPORTS ON WELLS

DIRECTIONAL DRILL

PERFORATE CASING

CHANGE PLANS

This location has been cleaned up, restored and ready for inspection.



Title Production Manager 9/14/67

> STATE OF ARIZONA
> OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies

ALTERING CASING

ABANDONMENT

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Form No. 25

412 Permit No.

DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Form 9-330 (Rev. 5-63)		\		empatr l	N DUPLICATE*	l Form	approved. et Bureau No. 42–R355.5.
(rev. 5-65)		II'I'ED ST			(See other I	n- l	
•	DEPARTME			ERIOR	structions o reverse side	i)	ATION AND SERIAL NO.
	GEOL	OGICAL S	OURVEY		<u></u>	No. 14-2	0-0603-8165 LOTTEE OR TRIBE NAME
WELL COM	APLETION OR	RECOMPL	ETION RI	EPORT A	ND LOG*	Navalo	
In TYPE OF WELL:	oir 📋	GAS WELL		ther		7. ENIT AGREEM	
L TYPE OF COMPI	WELL L.J.	WELL L_1	La La C	, tati			
NEW [ ]	WORK DEEP- DEEP-	PLUG	DIFF. BESVR. O	other	· · · · · · · · · · · · · · · · · · ·	S. FARM OR LEA	SE NAME
2. NAME OF OPERATOR	īt .				-	9. WELL NO.	-Hobi I
	<u>All &amp; Gas Co.</u>	of Texas				- 9. WELL NO. 2	
			1001		•	10. FIELD 2ND F	OOL, OR WILDCAT
P.O. BOX	#7. Spearman. (Report location clean	ly and in accord	lance with any	State requirem	enta)*		
	30' from S. II					11. SEC. T., R., CR AREA	OR BLOCK AND SURVEY
		###C		•	:		- 20u 8 920
	3					Sec. 24	, T. 39N, R. 23E
At total depth	Same	ſΪ	4. PERMIT NO.	DA	TE ISSUED	12. COUNTY OR PARISH	13. STATE
·	ing a magazina a sa mara		412		5/26/67	Apeche	Arizona
15. DATE SPUDDED	16. DATE T.D. REACHE	D 17. DATE CO	IPL. (Ready to	prod.) 18. E	LEVATIONS (DF, RE	B, RT, GB, ETC.) 1	9. ELEY. CASINGHEAD
6/B/67	7/6/67			ry)	K.B. 5237	S BOTARY 100LS	CABLE TOOLS
20. TOTAL DEPTH, MD A	TVD 21. PLŮG, BACI	T.D., MD & TVD	HOW MA	IPLE COMPL.	DRILLED	BY	4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6452	ATT(2)' ON THIS COND	ETION-TOP, BOT	NON(	D AND TVD)*	·!	Rotary	25. WAS DIRECTIONAL SURVEY MADE
						· · · · · · · · · · · · · · · · · · ·	
HONE	· · · · · · · · · · · · · · · · · · ·	-		: :		-	Yes (Rig Surveys)
26. TYPE ELECTRIC A	ND OTHER LOGS RUN	Qual Inde	ict Lon-La	teralog.	Bora Hole (	compensated	. WAS WELL CORED
Scale with	Caliper, Side	انتملا العب	rean with	Create No.	V CALLDOR		- NO.
23.	WEIGHT, LB./FT.	CASING DEPTH SET (		ort all strings s		ING RECORD	AMOUNT PULLED
		460 61		1511	150 sv.	Class A	None
13-3/8"	18#	2571 (	(B)	0-5/818	lds) ex	Class C	- Hone
0-3/0"		5 6 9 5 2	FCHE #	<u> </u>			
		D PERSONE	<u> </u>		1 80.	TUBING RECOR	
29. 81ZE		R RECORD	CKS CHMENT*	SCREEN (MD		DEPTH SET (MD)	
					Make	2 2 2 4 1 3.	
HONE	Programme and the second		a Paris Star A	F 2 18	HONE	1 1 2 2 2 2 2	
31. PERFORATION BE	CORD (Interval, size an	d number)		32.		RACTURE, CEMENT	
	arama			DEPTH INTI	(dw), layes	AMOUNT AND KIND	OF HATERIAL USED
•				HONE	7:1		
:						245491	
	1. 品类等增加。				, ig ki		(6)
33.*					and tune of ourse)	i Weil s	Programm or
DATE FIRST PRODUCT	PRODUCTION	NETHOD (FIG	eing, gas tiji, j	ритрилу—выс і	ind type of pump)	shut	2 2 3 3 V
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR	OIL-BEL.	GAS—MCF.	WATER-BRA	J GAPOL TATEO
			TEST PERIOD	3 6 6 4			Do P. B.
TLOW. TURING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS	W.CF. X	ATER-BBL.	The OBEST AND TOO
		<del></del>	<u> </u>			TEST WITNES	
34. DISPOSITION OF	GAS (Bold, used for fuel	, vented, etc.)	 		- 5	izal wilana	
35. LIST OF ATTACE	HMENTS		<del></del>		<u> </u>		
					5.4		
36. I hereby certif	y that the foregoing a	od attached info	rmation is con	plete and corre	ect as determined	frem all available re	cords
	TO SHE	1/2	marrie sa		1	DATE	10 6 1 1 1 1 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1
SIGNED	<u> </u>				on Manager	\$ 15 TO 15 14 45 5	
A	- ) *(See In	structions and	Spaces for	Additional I	Data on Revers	e Side)	
9 41						•	

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# INSTRUCTIONS

Gasteri: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, submitting a complete and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be or both. Federal and or regional, procedures and practices, either are shown below or will be issued by, or may be obtained from, the local, Federal and/or State office. See instructions or regional, procedures and practices, either are shown below or will be issued by, or may be obtained from, the local, read and or regional, procedures and practices, either are shown below or will be issued by, or may be obtained from, the local, Federal and/or State office. See instructions on the submitted, necessary reseals, and state of the action of the extent required by applicable Federal and/or State laws and regulations. All attachments about the blass of this summay record is submitted, necessary reseals, and state of the extent of the extent required by applicable federal and/or State laws and regulations. All attachments or Federal and/or state laws and regulations. All attachments, or federal and/or state laws and regulations. All attachments, or federal and/or submitted by applicable produced or suparate producin from more than one interval; completed or suparate produced or suparate producin from more than one interval completed or supervals. The completed of supervals and name (s) [If any) for only the interval completed or supervals and name (s) [If any) for only the interval report (page) and the recent of the expert of the exp

	Contract of the contract of th	DELTH INTERVAL TREED, CUBRICO CORO, 11111 100	- [						-	T01.
NOTA NICO	TOL	BOTTON		DESCRIPTION, CONTENTS, ETC.	TENTH, ET			NANE	MEAN. DEPTU	THUM YOUT, DEPTH
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	630	2885	a pu	Shals						
	200	202	Sand to	Shale	•		÷			
	301.	1763	e pu	Shale		•	:	•		
	27.	28	J pues	Shelo						
Kool Kool	50/2			Shale		÷	<del>;                                    </del>			• *
Dechalley	200	KUV6	2 1000	Chaire	T y					
Gregon Rock	2530	330	21127		3	1270}	Ą			
Hermose (Penn)	3967	764			, Z	746)				
TONE ZONE	4492	\$63.	2 25.6%					-		
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41.74	4709	4833	9 pues	Shalle	٤.	250				
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11511 7 COL	1969	50%	Serve &	She le	<u>.</u>	097				· .
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	5170	5266	Samo C	Shale	<u>ځ</u> .	30				- 
	5266	5344	Sand	Shele	<b>ٺ</b> .	53	: .			
Minel and and	53/44	5685	Sand &	She le	<b>ٺ</b> .	200			·	
Townson I am	5684	5786	Sand &	Shale Shale	<b>ث</b> .	3				•
Care Course and Care Care Care Care Care Care Care Care	78.7	6017	Send &	Shale	<u>ٺ</u>	T.				· .
	7.09	6121	Send &	Shale	<b>ن</b> الراب	(ng/			;	•
Aneth	6121	6265	Sand &	Shale	<b>ن</b> درون	(%/0				
aright Angel	1 696F	6240	Sand & Shale	Shale	13	(-1029)		<i>x</i>		871.233
	6310	64483	Sand &	Same LIS SOVERBINENT PRINTING OFFICE: 1		-1103)	1			
Tapents	5444A	(14.5)	Sand	f. Shele	•	-1206)				

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U( 'ED STATES SUBMIT IN TRIL ATEDEPARTMENT OF THE INTERIOR (Other instructions, in reverse aide) Form approved, Budget Bureau No. 42-R1424. Form 9-331 (May 1963) 5. LEASE DESIGNATION AND SERIAL NO. 6. IE INDIAN, ALLOTTEE OR TRIBE NAME GEOLOGICAL SURVEY SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) Hevelo Tribal 7. UNIT AGRESMENT HAME OIL GAS OTHER DEV HOLE 8. PARM OR LEASE NAME: 2. NAME OF OPERATOR B. WELL NO. Horizon Oil & Gas Co. of Texas 3. ADDRESS OF OPERATOR P.O. Box #7. Spearman. Taxas 79081

4. Location of Well (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)

At surface 10. FIRED AND POOL, OR WILDCAT 1980' from S. line and 660' from W. line 565, 24, T. 394, R. 23E 12. COUNTY OF PIRES | 18. STATE 15. BLEVATIONS (Show whether DF, RT, GR, etc.) 14. PERMIT NO. 412 K.B. 5237 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 16. SUBSEQUEST: KEPORT OF: NOTICE OF INTENTION TO: REPAIRING WALL PULL OR ALTER CASING WATER SHUT-OFF TEST WATER SHUT-OFF ALTERING CARINO WRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT ABANDONHERT! SHOOTING OR ACIDIZING ABANDON\* SHOOT OR ACIDIES er)
(Norz: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) CHANGE PLANS REPAIR WELL (Other)

Completion or Recompletion Report and Leg-toring)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and sones pertinent to this work.)

7. D. 6452

Sat coment plus: 5976 to 6150 Set cement plugs: 5975' to 6150' 5300' to 5400' 3900' to 4000' 2550' to 2650' Surface plug and marker Sundray Hotics to follow when location is cleaned up, restored and ready inspection. 18. I hereby certify that the foregoing is true and correct TITLE \_ Production Nanager (This space for Federal or State office use) the constituent TITLE 1667.55

4

\*See Instructions on Reverse Side

BUS. PHONE (405) JA 8-2309

RES. PHONE (405) VI 2-2201

## J.G.M. Dilling Company

600 CITIZENS BANK TOWER BUILDING
2200 CLASSEN BLVD.
OKLAHOMA CITY, OKLAHOMA 73106

February 8, 1968

Horizon Oil & Gas Co. P. O. Box 7 Spearman, Texas

ATTN: Everett R. Tracy Production Manager

RE: #1-24 Navajo-Mobil
Sec. 24,twp. 39N, Rge 23E
Apache County, Arizona

Dear Mr. Tracy:

Below is the directional survey (rig deviation) of the above captioned well as requested in your letter dated February 5, 1968:

3/12/67	120'	1°
3/12/07	347'	Ì٩
3/15/67	6841	1 1/2°
3/16/67	1013'	1/2°
3/17/67	1737'	3/4°
<b>4</b> 1 127 43	2256'	1 1/2°
3/19/67	24481	1 1/2°
0, 12, 01	2542'	70
3/20/67	26541	1 3/4°
0, 20, 0.	2747'	<b>1°</b> .
	2841'	3/4°
	2943'	3/4°
	3252'	1 1/4°
3/21/67	3677'	7°
3/27/67	5041'	3/4°
3/28/67	5209'	1 1/4°
3/29/67	5334'	1 1/4°
3/31/67	55 <b>56</b> '	1 1/4°
4/5/67	60051	1 1/2°

Thank you.

J.C.M. DRILLING COMPANY

Michael C. Clark

MCC/ckw

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BUS. PHONE (405) JA 8-2309

COLUMN TEN

RES. PHONE (405) YI 2-2201

6418: - 6449! Total Depth

## J.G. M. Drilling Company

600 CITIZENS BANK TOWER BUILDING
2200 CLASSEN BLVD.

OKLAHOMA CITY, OKLAHOMA 73106

#### PORMATION RECORD

CPERATOR: HORIZON OIL COMFARY
LEASE NAME: Navajo #1
LOCATION: NW/P Sec. 38-38N-24E
Apache County, Arizona

52881- 53261 Lime - 1071 Red Red 53261- 5359' Shale & Lime 10?' - 2?5' 275' - 375' 375' - 410' Red Bed 5359'- 5398' Shale, Lime Red Bed 53081 - 54541 Shale & Lime Sand 54541 - 5498 Shale & Lime 4101 - 5661 Tea Bed 5498: - 5508! Shale & Lime 5661 - 8311 Sand 5503'- 5554' Shale, Snd., Lm. 831: - 1165' Sand 5554'- 5502' Lime & Shale 11651 - 14091 Sand 55021- 5632! Lime & Shale 14081 - 14931 Sand 5632'- 5700' Shale & Lime 1493' - 1588' Sand 5700'- 5730' Shale & Lime 5730'- 5790' Shale & Lime 5790'- 5817' Shale & Lime 5817'- 5862' Shale & Lime 1598: 1809: Sand & Shale 18001 - 2065! Sand & Shale 20651 - 20981 Sand & Shale 20981 - 24131 Sand & Shale 58621- 58961 Shale & Lime 24131 - 25441 Sand & Shale 589(1- 5920' Shale & Lime 25441 - 26031 Sand & Shale 59201- 5**958**1 Shale & Lime 2603: - 2620! Sand & Shale 59581 - 5977' Shale & Lime 2620'- 2710' Shale 2710'- 2949' Shale Dolomite 5977'- 6003' Shale & Lime 2948' - 3224' Sand & Shale Dolomite 3224: - 3373' Sand & Shale 3373: - 3522' Sand & Shale 3522: - 3688' Sand & Shale 6008'- 6039' Dolomite 6039! - 6069! Shale & Dolomit 6069'- 6105' Shale & Lime 4270' - 4410' Shale & Lime Dolomite 44101 - 45771 Sand, Shale, Lime, Chert 6105'- 6137' Dolomite & Lime 4577' - 4672' Sand & Shale, Lime 6137'- 6153' Dolomite & Lime 4672: 4788: Lime & Shale 61531 - 6155' Sand & Dolomite 4788: - 5008: Sand, Lime, Shale 6155'- 6185' Dolomite 5008: - 5083: Sand, Shale, Lime 61851- 62201 Sand, Shale, 5083' - 5125' Sand, Shale, Lime Lime 5125'- 5189' Lime & Shale 62201- 62471 Sand, Shale 51891 - 52141 Lime & Shale Anahydrite 5214 - 5221 Lime & Shale 62471- 62761 Sand, Shale & 5221'- 5266' Lime & Shale 5266'- 5288' Shale & Lime Lime, Anhydrite 6276'- 6318' Shale & Lime 6318'- 6364' Sand, Shale Dolomite 6364: - 6418: Sand & Shale

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SITTORY NOTICES A	ND REPORTS ON WELLS	
Name of Operator Horizon Oil & Gas Co. of Coll Well   X Gas Well & OTHER   Well Name NAVAJO-MOBIL #1-24  Location 1980 from S line and 660 from Well Sec. 24 Twp 39N Rge	(Specify)  1 line  23E County Apache  7 line 10000 (16020-0603-8165)	
i. Federal, State or Indian Lease Number, or lessor's name if fee lease i. Field or Pool Name Wildcat ii. Check Appropriate Box to Indicate Nature of Notice, Report, or Ott		
NOTICE OF INTENTION TO:  TEST WATER SHUT-OFF PULL OR ALTER CASING PRACTURE TREAT DIRECTIONAL DRILL SHOOT OR ACIDIZE PERFORATE CASING REPAIR WELL CHANGE PLANS  (OTHER)	SUBSEQUENT REPORT OF:  WATER SHUT-OFF MONTHLY PROGRESS REPAIRING WELL ALTERING CASING ABANDONMENT  (OTHER)	x
	(NOTE: Report results of multiple completion on Well Con or Recompletion Report and Log form.)	npletion

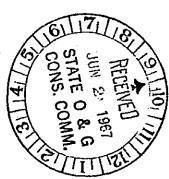
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spud 6/8/67

6/9/67: Ran 11-3/4" casing & set @ 369 K.B. Cemented with 150 sacks Class A cement

6/15/67: Ran 80 jts. 8-5/8" casing & set @ 2571". Cemented with 440 sacks cement.

6/26/67: Drilling @ 5590°.



	7111165
8. I hereby pertify that the foregoing is true and correct.  Signed	
	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells File Two Copies
Permit No. 412	Form No. 23

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Ų	RLL SITE CHECK	By 201 Date 7-6-67
Contractor Man Dolg Spud Date	Rig#2 Person(s	) Contacted Dave Thomas huck Wheeler (Mobil in Cosper
Rota	e Tool Present	Operations
Pipe	Drilling	with Mud - See below
Lost Circ. Zones	Size Dri	ill Pipe
Cores, Logs, DST	Type Bit	Drilling Ente
Crews	Litholo	on <u>pre</u> +
REMARKS, PHOTO, MAP  Ran DST Top Aneth		'25-53' Open 65" Rec
5' m.; 151P 2065 # 30 F51P 1998 # 30		GAUE VERBEI permission To plug.
TD 6452 DAL / in TD 6449 Sch / in	Pre Camprian	
Lap que l' Coamps		Drive South From Drineholso
Drilled w/ air to 50	13 1000 - 6452	

WELL NAME Horizon 1-24 NAVOjo. Mobil

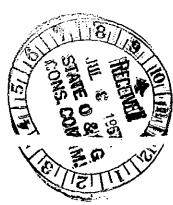
Permit No. 4/2
Confidential: yes No

NOTICES AND REPORTS ON WELL

1. Name of Operator Horizon Oil & Gas Co. of To	exas
2. OIL WELL X GAS WELL X OTHER	(Specify)
3. Well Name NAME NAME NAME NAME NAME NAME NAME NAME	
Location 1980' from S line and 660' from W	line
Sec. 24 Twp. 39N Rge	23E County Apache , Arizona.
4. Federal, State or Indian Lease Number, or lessor's name if fee lease	Indian Lease (14-20-0603-8165)
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other	r Data
NOTICE OF INTENTION TO:  TEST WATER SHUT-OFF PULL OR ALTER CASING FRACTURE TREAT DIRECTIONAL DRILL SHOOT OR ACIDIZE PERFORATE CASING REPAIR WELL CHANGE PLANS (OTHER)	SUBSEQUENT REPORT OF: Weekly Weekly WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING ALTERING CASING ABANDONMENT  (OTHER)  (NOTE: Report results of multiple completion on Well Completion
	or Recompletion Report and Log form.)

 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilling 6037'



•	
8. I hereby certify that he foregoing is true and correct.	
Lost I have	Title Prod. Mgr. Date 6/30/67
Signed	
	STATE OF ARIZONA
	OIL & GAS CONSERVATION COMMISSION
	Sundry Notices and Reports On Wells
	File Two Coples
/10	Form No. 25
Permit No. 412	
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Form approved. Budget Bureau No. 42-R1425. SUBMIT IN TIE Form 9-331 C (May 1963) (Other instructions on reverse side) UNITED STATES DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK PLUG BACK DEEPEN 🔲 DRILL 🖳 b. TYPE OF WELL 8. FARM OR LEASE NAME. WELL S 2. NAME OF OPERATOR 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)
At surface 1980' fr. S. Line & 660' fr. W line, Sec. 24, T 398, R 23E, Sec. 26, T 391, R 23K At proposed prod. zone Apoche County, Arizona 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 10. Distance Flow Proposed Arinous 16. NO. OF ACRES IN LEASE 10. DISTANCE FROM PROPUSED\*
LOCATION TO MEAREST
PROPERTY OB LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH APPROX, DATE WORK WILL START 21. ELEVATIONS (Show whether DF, RT, GR, etc.) PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT SETTING DEPTH WEIGHT PER FOOT SIZE OF HOLE BIZE OF CASING 1312 11-3/418 428 350 155 seeks 7-7/84 5-1/2" We propose to drill with rotory tools to approximately 6500', set cosing, perforate, IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sear and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 3 Production M TITLE . SIGNED (This space for Federal or State office use) APPROVAL DATE DATE. TITLE A D Rang Milde sid CONDITIONS OF APPROVAL, IF ANT:

\*See Instructions On Reverse Side

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER RE-ENTER OLD WELL PLUG BACK [] APPLICATION TO DRILL DEEPEN [] DATE May 24, 1967 Horizon Oil & Gas Co. NAME OF COMPANY OR OPERATOR State City Address Texas Spearman P.O. Box #7 DESCRIPTION OF WELL AND LEASE Elevation (ground) Well number Federal, State or Indian Lease Number or name of lessor, if fee lease G.L. 5225 No. 14-20-0693-8165 Section-township-range or block & survey Well location and acreage dedicated to the well (give footage from section lines) 1980 fr. S line & 660 fr. W line (80 acres) 23E 39N Field & reservoir (If wildcat, so state) Apache, Arizona Wildcat Distance, in miles, and direction from nearest town or post office 5 Miles South Dinnehotso Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: Nearest distance from proposed location to property or lease line: None 660\_ feet feet Rotary or cable tools Approx. date work will start Proposed depth: 6/1/67 Rotary 6500 (Cambrian) Number of wells on lease, including this well, completed in or drilling to this reservoir: Number of acres in lease: one 2560 If lease, purchased with one or more wells drilled, from whom purchased: Address Name Organization Report On file Or attached On Status and amount of bond Filing Fee of \$25.00 Attached\_\_\_\_ On file Filed - \$5,000,00 Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) \*Fill in Proposed Casing Program on reverse side CERTIFICATE: I, the undersigned, under the penalty of perjuty, state that I am the Production Manager of the HOTIZON OIL & GAS COMPANY. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. May 24, 1967 STATE OF ARIZONA Permit Number: OIL & GAS CONSERVATION COMMISSION Approval Date: Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

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See Instruction on Reverse Side of Form 02-00/- 20036

(Complete Reverse Side)

Form No. 3

Application to Drill, Deepen or Plug Back and Plat

File Two Copies

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- 1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. All distances shown on the plat must be from the outer boundaries of the Section.
- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO
- 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES\_\_\_\_\_\_\_NO\_\_\_\_\_\_\_ If answer is "yes," Type of Consolidation\_\_\_\_\_\_\_
- 6. If the answer to question four is "no," list all the owners and their respective interests below:

Land Description CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Production Manager Position Horizon Oil & Gas Co. Company May 24. Date I hereby certify that the well location shown on the plat was plotted 660¹ from field notes of actual surveys Horizon Oil & Cas Co. made by me or under my super-Navajo - Mobil #1-24 vision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed May 13, 1967 Registered Professional Engineer and/or Land Surveyor Frederick H. Reed Certificate No. 66b . 990 1320 1650 1980 2310 2000 . 1500. 1000 500 5313

PROPOSED CASING PROGRAM Sacks Cement **Cementing Depths** Size of Casing Grade & Type Top Bottom Weight **2**50 155 H-40 surface 350 42# 11=3/4 300 6500 5500 to 6500 15.5# J**-**55 5-1/2

R.23 E. R.24 E. Section **⊈** Hole Proposed Location Scale: 1"=1000" 26

#### WELL LOCATION: Horizon Oil & Gas Co. - No. 1 Navajo

Located 1980 feet North of the South line and 660 feet East of the West line of Section 24 Gilo & Solt River Meridian Township 39 North, Range 23 East,

Apache Co., Arizona

Existing ground elevation determined at 5225 feet based on adjoining locations.

Thereby certify the above plot represents a survey made under my supervision and that it is accurate

FREDERICK H. REED
Registered Land Surveyor
State of Artzena # 5313

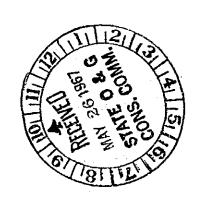


Horizon Oil & Gas Co.

WELL LOCATION PLAT Sec. 24, T. 39 N., R. 23 E. Apache Co., Arizona

CLARK-REED & ASSOC. DATE May 13, 1967 Durango , Colorado FILE NO: 67041

412



HOWELL.

\*

 $G^{*}$ 

(CENTRALE)



## PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

		#A			E TEV	las		
D:		HORIZON O	IL & GA	OPERATOR				
			o drill a we	ell to be l	(nown as			ŧ
			A #1-24					
		~~~~		VELL NAME)				
ocated	198	80' FSL an	4 660'	FWL				
ection	24Towi	nship39k	Range_	23E	_,	Apache	<b>e</b> Co:	ounty, Arizona
he	W/2 SW/4							of sai
	Township and	Range is ded	licated to	this well.				
Saic n full co	d well is to be ompliance with	drilled substa	antially as e laws, sta	outlined i	n the attac es and reg	hed Applic	tation and r	nust be drille of Arizona.
	ued this26t				Hay			
	•			OIL	AND GAS	CONSERV	ATION ,CO	OMMISSION
			. •	By	John	1/2an	nister	<u></u>
oo mosi Oo, SECTII	BEING ALLOWED T SE IN FULL C	COMPLIANCE WIT	T1: 61:	<b>by</b>	1	EXECUTIV	E SECRETARY	
THE PR	RODUCT TO BE PR	RODUCED.	···CUFEU!					

State of Arizona

Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

API # 02-001-20036

PERMIT

RECEIPT NO.

No

9504

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			BOND SERIAL	NO. 131531	3
t Horizo	on Oil & Gas Co.	of Texas, a	Texas corpor	ration	
he	D 11	in th	e Texas	s	_
inty of:	Dallas	State	ot:		
orincipal, The T	ravelers Indemnity	Company	<u>, •                                     </u>		
1110					
Hartford	I, Connecticut	TO DO BUSINESS	WITHIN the State of	Arizona.	
					a, in the penal sum as
surety, are held a	and firmly bound unto the oney of the United State	s, for which paymen	it, well and truly to	be made, we b	ind ourselves, and each
and analysis of a	uz baire avecutors admin	istrators or successor	2' Stiff granters louisers	(4114 001 010-0)	
e conditions of th	ois obligation is that where rals, or for stratigraphic p	eas the above bounde urposes in and upon	n principal propose: the following descri	bed land situat	ed within the State, to
t:	ais, or tor sample P				
NW 🛬 SW	Section 24 Town	ship 39 North	Range 23E G	&SRM	
	(Ma	y be used as blanket bon	id Of 101 Siligie wen)		
Apache C	ounty, Arizona				
A.R.S. 27-516, provervation Commissor gas in commerce wise, the same shapermission of this commerce with the commission of the commission	re Thousand And No	ng, casing and pluggist required by said Coproduce oil or gas in orce and effect. Liab	mmission, in the even a commercial quanti- ility under this bond	ent said well or ties, then this of may not be ter	wells do not produce oil bligation is void; other- minated without written
Vitness our hands	and seals, this 121		on Oil & Gas	Co of T	Pevas
Attest:		/	OII OLL & Gas	6.01	1
By Leuto	H. Ballou, Secre	By	priviled	Presi	dorff
Newton			1 dok		denc
Vitness our hand	s and seals, this 12th	day ofday		[18/16]	^
	The Tr	ravelers Indemni	ty Gondon's	1/1/3/	5/7
	Va	hand	Harrewo	od	
	Mian	I. Hazlewood,	ttiorney-in-	t /	16/1/5/2
·	(/ <u>-</u>	( setu ). It	Surety Resident Ari	zona Agent	
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(If the principal is a	corporation, the bond should butes this bond by agent, powe	be executed by its duly a r of attorney or other e	authorized officers, With vidence of authority mu	st accompany the	bonds
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By: 1/1//	1 - IWIVIWAY		FORM NO. 2		
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Permit No					

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The Travelers Indemnity Company
Hartford, Connecticut

#### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That THE TRAVELERS INDEMNITY COMPANY, a corporation of the State of Connecticut, does hereby make, constitute and appoint

Julian I. Hazlewood, Asa Jackson, Sam R. Kimmell, Ronald G. McDearman, C. W. Morgan, J. Burns Smith, R. S. Williams, Jr., all of Dallas, Texas, EACH

its true and lawful Attorney(s)-in-Fact, with full power and authority, for and on behalf of the Company as surety, to execute and deliver and affix the seal of the Company thereto, if a seal is required, bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof, as follows:

Any and all bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof -

and to bind THE TRAVELERS INDEMNITY COMPANY thereby, and all of the acts of said Attorney(s)in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This appointment is made under and by authority of the following by-laws of the Company which by-laws

are now in full force and effect:

STATE OF THE STATE OF

ARTICLE IV, Section 11. The Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Insurance Executive Committee, any Vice President, any Second Vice President, any Secretary or any Department Secretary may appoint attorneys-in-fact or agents with power and authority, as defined or limited in their respective powers of attorney, for and on behalf of the Company to execute and deliver, and affix the seal of the Company thereto, bonds, undertakings, recognizances, consents of surety or other written obligations in the power thereof and any of said officers are consents of surety or other written obligations in the nature thereof and any of said officers may remove any such attorney-in-fact or agent and revoke the power and authority given to him.

ARTICLE IV, Section 13. Any bond, undertaking, recognizance, consent of surety or written obligation in the nature thereof shall be valid and binding upon the Company when signed by the Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Insurance Executive Committee, any Vice President or any Second Vice President and duly attested and sealed, if a seal is required, by any Secretary or any Department Secretary or any Assistant Secretary or when signed by the Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Insurance Executive Committee, any Vice President or any Second Vice President and countersigned and sealed, if a seal is required, by a duly authorized attorney-in-fact or agent; and any such bond, undertaking, recognizance, consent of surety or written obligation in the nature thereof shall be valid and binding upon the Company when duly executed and sealed, if a seal is required, by one or more attorneys-in-fact or agents pursuant to and within the limits of the authority granted by his or their power or powers of attorney.

This power of attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Directors of THE TRAVELERS INDEMNITY COMPANY at a meeting duly called and held on the 30th day of November, 1959:

VOTED: That the signature of any officer authorized by the By-Laws and the Company seal may be affixed by facsimile to any power of attorney or special power of attorney or certification of either given for the execution of any bond, undertaking, recognizance or other written obligation in the nature thereof; such signature and seal, when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually

This power of attorney revokes that dated September 20, 1965 on behalf of Julian I. Hazlewood, Asa Jackson, Sam R. Kimmell, Ronald G. McDearman, C. W. Morgan, Lee W. Sarty, Jr., J. Burns Smith -

IN WITNESS WHEREOF, THE TRAVELERS INDEMNITY COMPANY has caused these presents to be signed by its proper officer and its corporate seal to be hereunto affixed this day of June THE TRAVELERS INDEMNITY COMPANY

Stoger Skeles

State of Connecticut, County of Hartford-ss:

in the year 1966 before me personally 8th day of June On this came G. Roger Wheeler to me known, who, being by me duly sworn, did depose and say: that he resides in the State of Connecticut; that he is Secretary (Fidelity and Surety) of THE TRAVELERS INDEMNITY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of his office under the by-laws of said corporation, and that he signed his name thereto by like authority.

> PUBLIC ORD.

Notary Public

My commission expires April 1, 1969

S-1869 REV. 7-65 PRINTED 19 0.5 A

(Over)

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#### CERTIFICATION

I, Wm A. Shrake, Assistant Secretary (Fidelity and Surety) of THE TRAVELERS INDEMNITY COMPANY certify that the foregoing power of attorney, the above quoted Sections 11. and 13. of Article-IV of the By-Laws and the Resolution of the Board of Directors of November 30, 1959 have not been abridged or revoked and are now in full force and effect.

Signed and Sealed at Hartford, Connecticut, this 12th

day of Hay

1967.



wma. Shrake

Assistant Secretary, Fidelity and Surety

8-1869 (BACK)

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The Travelers Indemnity Company Hartford, Connecticut

#### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That THE TRAVELERS INDEMNITY COMPANY, a corporation of the State of Connecticut, does hereby make, constitute and appoint

James R. Allen, Jr., Walter J. Shudde, Jr., H. Dean Thorndike, all of Phoenix,

its true and lawful Attorney(s)-in-Fact, with full power and authority, for and on behalf of the Company as surety, to execute and deliver and affix the seal of the Company thereto, if a seal is required, bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof, as follows:

Any and all bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof \_\_\_

and to bind THE TRAVELERS INDEMNITY COMPANY thereby, and all of the acts of said Attorney(s)in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This appointment is made under and by authority of the following by-laws of the Company which by-laws

are now in full force and effect:

ARTICLE IV, SECTION 11. The Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Insurance Executive Committee, any Vice President, any Second Vice President, any Secretary or any Department Secretary may appoint attorneys-in-fact or agents with power and authority, as defined or limited in their respective powers of attorney, for and on behalf of the Company to execute and deliver, and affix the seal of the Company thereto, bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof and any of said officers may remove any such attorney-in-fact or agent and revoke the power and authority given to him.

ARTICLE IV, SECTION 13. Any bond, undertaking, recognizance, consent of surety or written obligation in the nature thereof shall be valid and binding upon the Company when signed by the Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Insurance Executive Committee, any Vice President or any Second Vice President and duly attested and sealed, if a seal is required, by any Secretary or any Department Secretary or any Assistant Secretary or when signed by the Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Insurance Executive Committee, any Vice President or any Second Vice President and countersigned and sealed, if a seal is required, by a duly authorized attorney-in-fact or agent; and any such bond, undertaking, recognizance, consent of surety or written obligation in the nature thereof shall be valid and binding upon the Company when duly executed and sealed, if a seal is required, by one or more attorneys-in-fact or agents pursuant to and within the limits of the authority granted by his or their power or powers of attorney.

This power of attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Directors of THE TRAVELERS INDEMNITY COMPANY at a meeting duly called and held on the 30th day of November, 1959:

VOTED: That the signature of any officer authorized by the By-Laws and the Company seal may be affixed by facsimile to any power of attorney or special power of attorney or certification of either given for the execution of any bond, undertaking, recognizance or other written obligation in the nature thereof; such signature and seal, when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually

This power of attorney revokes that dated January 5, 1966 on behalf of James R. Allen, Jr., Richard A. Beardsley, J. P. Harrison -

IN WITNESS WHEREOF, THE TRAVELERS INDEMNITY COMPANY has caused these presents to be signed by its proper officer and its corporate seal to be hereunto affixed this 1966. June

THE TRAVELERS INDEMNITY COMPANY

INDEA

Hooper Skeler

State of Connecticut, County of Hartford-ss:

in the year 1966 before me personally June 29th day of On this came G. Roger Wheeler to me known, who, being by me duly sworn, did depose and say: that he resides in the State of Connecticut; that he is Secretary (Fidelity and Surety) of THE TRAVELERS INDEMNITY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of his office under the by-laws of said corporation, and that he signed his name thereto by like authority.

> NOTARY PUBLIC

Margaret D. Tunle **Notary Public** 

My commission expires April 1, 1969

S-1869 REV. 7-65 PRINTED IN U.S.A

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(Over)

#### CERTIFICATION

I, Wm A. Shrake, Assistant Secretary (Fidelity and Surety) of THE TRAVELERS INDEMNITY COMPANY certify that the foregoing power of attorney, the above quoted Sections 11. and 13. of Article IV of the By-Laws and the Resolution of the Board of Directors of November 30, 1959 have not been abridged or revoked and are now in full force and effect.

Signed and Sealed at Hartford, Connecticut, this

day of

19



wma Shra Assistant Secretary, Fidelity and Surety

6-1869 (BACK)

THE TRAVELERS

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THE TRAVELERS INDEMNITY COMPANY

Hartford, Connecticut

NOTICE	OF	CANCELLATION
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May 10

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Oil and Gas Conservation Commission	
State of Arizona	
Phoenix, Arizona	
1	
L.,	
	/ 1 Bond No. 1315313
	ر الله الله الله الله الله الله الله الل
On the 12th day of May	9 68 THE TRAVELERS INDEMNITY COMPANY, as Surety,
executed a(n) Oil and Gas Lease bor	nd in the penalty of Five Thousand And No/100
$\Rightarrow$	of Horizon Oil and Gas Co. of Texas
ofas Princip	al, in favor of State of Arizona
, as Obligee. The bond, by its terms, provides that the S	urety may terminate its liability by giving notice of its election
to do so to the Obligee. In accordance with the terms of the b	ond we hereby elect to terminate our liability and shall, as or
	68consider ourselves released from all liability by reason of
any default committed thereafter by the Principal.	
Below is an Acknowledgement which we would apprecia	ate your signing and returning
below is an Acknowleagement which we would apprecia	ne your signing and recoming.
	THE TRAVELERS INDEMNITY COMPANY
	A
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	By: Warnif Clil
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	Garnye Cill, Attorney-in-Fact
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	/9/932是世上
Please detach and return to	60 00 A
THE TRAVELERS INDEMNITY COMPANY	
at the following address:	
First National Bank Building	
	of Igh
Dallas, Texas 75202	
	Bond No. 1315313
	Horizon Oil and Gas Co. of Texas
ACVIONI	IEDOFHIENT
ACKNOW	LEDGEMENT
	1518
Your Notice of Cancellation has been received. We ha	ve arranged to cancel the bond effective the
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day of 1/1/4, 19 <u>0</u>	
5-1K 10	
Date: 9 1968	
	Juhal & Samuel Ten
	By: fayvil f-Minner
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HORIZON
OIL & GAS CO.
P. D. BDX 7
SPEARMAN, TEXAS

February 12, 1968

Mr. John Bannister
Oil & Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona 85007

Re: Horizon Oil & Gas #1-24
Navajo-Mobil, NW SW 24-39N-23E
Apache County, Arizona File 412

Gentlemen:

With reference to your letter of February 1, 1968 on the above captioned well, enclosed please find two copies of the directional rig survey.

Please advise if we can be of further assistance.

Yours very truly,

Everett R. Tracy Production Manager

ERT:jf

STATE ON THE STATE OF THE STATE

412

February 1, 1968

Horizon Oil & Gas Co. of Texas P.O. Box #7 Spearman, Texas 79081

Re: Horizon Oil & Gas #1-24 Navajo0-Mobil NW SW 24-39N-23E, Apache County, Arizona File 412

Gentlemen:

In reviewing our file we note that a directional survey (rig) was run; however we do not find a copy in the well file.

Would you please send this Commission a copy of that survey.

Very truly yours,

John Bannister Executive Secretary mr

NEW COL

STEELEN



The Oil & Gas Conservation Commission of the State of Arizona 1624 West Adams
Phoenix, Arizona 85007

Re: Horizon Oil & Gas Co. of Texas No. 1-24 Navajo-Mobil, Sec. 24 Township 39N, Range 23E, Apache County, Arizona

Gentlemen:

Attached please find original and one copy of "Sundry Notice and Report on Well" for the above mentioned location.

Yours very truly,

HORIZON OIL & CAS CO. OF TEXAS

Everett R. Tracy Production Manager

ERT:jf

TI STATE OF GOING!

HIN

June 20, 1967

Horizon Oil & Gas Co. of Texas P.O. Box 7 Spearman, Texas 79081

Attention: Mr. Everett R. Tracy, Production Manager

Re: Horizon Oil & Gas #1-24 Navajo-Mobil NW SW 24-39N-23E, Apache County, Arizona Permit 412

#### Gentlemen:

It is our understanding that captioned well has been spudded and is drilling below 2,000 feet.

As we have indicated to you, this Commission should be kept currently informed as to the operations on any well drilling within the State of Arizona. For your convenience, in reporting wells drilling on the Navajo Reservation, we will accept copies of your reports to U.S. Geological Survey. There is one exception, that the Well Completion Report be on this Commission's form. We invite your attention to the enlosed information sheet. Copy of this sheet was forwarded with your permit.

You are requested to file with this Commission, at your earliest convenience, the reports to bring this well to its current status. Should you have any questions, or if we may be of assistance to you, please let us know.

Very truly yours,

John Bannister Executive Secretary mr enc

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Oil and Gas Conservation Commission State of Arizona Room 202 1624 West Adams Phoenix, Arizona 85007

> Re: Horizon Oil & Gas Co. of Texas #1-24 Navajo-Mobil, NW, SW, 24-39N-23E, Apache County, Arizona Permit 412

Attention: Mr. John Bannister

Dear Sir:

With reference to your letter of May 29, 1967, attached you will find a copy of the designation of operator from Mobil.

We would like to advise the name and address of the drilling contractor on the above captioned well is as follows:

J.C.M. Drilling Co. Citizens Bank Tower Bldg., Suite 600 Oklahoma City, Oklahoma 73106.

Please advise if we can be of further assistance.

Yours very truly,

HORIZON OIL & GAS CO. OF TEXAS

Everett R. Tracy Production Manager

ERT: 15 TI 181 OF THE PARTY OF

1 44 11 200

State of Arizona.

### DEMONATION OF OPERATOR

DIDIAN AFFALLS

The undersigned is, on the records of the Bureau of the Bureau of the State of the second of the sec

DROGENLAND OFFICE: Marajo Agency, Window Rock, Arizona Min Min West wast No: 1A196-0603-3165

and herely designates.

Horizon Gil & Gas Co. of Times

Hart Sid Bldg.

Mauri, America, Balins, Temas 75000

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the loand regulations applicable thereto and on whopselite supervisor or his representative may serve written or east instructions in someting compliance with the Operating Regulations with respect to (describe during to almost this desegnation is applicable);

Township 32 Morris, Kange 25 Hast, G. G. N. H.

Containing 80 norces, Norce or Yosa. Anache County, Frizona

It is understood that this designation of operator does not relieve the lesses of responsibility for a consence with the terms of the true and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any inferest in the term.

. In second default on the put of the designated operator, the tersee will raide full and prompt complime: with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessen agree: promptly to notify the super root of any change in the designated operator.

r. O. Box 1652

Casper, Wyoming 82601

HORIZON

OF TEXAS (a corporation)

Vice Pres. - N. BRUCE CALDER

1216 Hartford Building

DALLAS 1, TEXAS

May 31, 1967

Oil & Gas Conservation Commission State of Arizona 1624 W. Adams Phoenix, Arizona 85000

> Re: Designation of Operator Contract No. 14-20-0603-8165 Waswa Sec. 24-39N-23E G&SRM Apache County, Arizona

Gentlemen:

Submitted herewith, in triplicate, for filing in your office is Designation of Operator executed on behalf of Mobil Oil Corporation and designating Horizon Oil & Gas Co. of Texas as operator of the captioned lease.

Very truly yours,

M. Bruce Calder N. Bruce Calder

bе Enclosures

412

MA

(Submit in triplicate to appropriate Regional Oil and Gas or Mining Supervisor)

A-17

## DESIGNATION OF OPERATOR

INDIAN AFFAIRS

The undersigned is, on the records of the Bureau of KKKK MEN geskets, holder of lease

INVENTED LAND OFFICE: Navajo Agency, Window Rock, Arizona 

and hereby designates

Horizon Oil & Gas Co. of Texas

NAME:

Hartford Bldg. Dallas, Texas 75201

ADDRESS:

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

> Township 39 North, Range 23 East, G.&S.R.M. Section 24: Wa SWa

Containing 80 acres, More or Less Apache County, Arizona

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

MOBIL OIL CORPORATION

(Signature of leasee)
Attorney-In-Fact

P. O. Box 1652

Casper, Wyoming 8260]

\*\*\*\*

T. R.

Legal

Approved

Form 9-1123 (Rev. Dec. 1957) (Submit in triplicate to appropriate Regional Oil and Gas or Mining Supervisor)

A-17

#### DESIGNATION OF OPERATOR

INDIAN AFFAIRS

The undersigned is, on the records of the Bureau of the bu

and hereby designates

Horizon Oil & Gas Co. of Texas

Hartford Bldg.

Name:

Dallas, Texas 75201

Address:

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 39 North, Range 23 East, G.&S.R.M. Section 24: W2 SW4

Containing 80 acres, More or Less Apache County, Arizona

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

(Signature of lessee)
Attorney-In-Fact

P. O. Box 1652

OBIL OIL CORPORATION

Casper, Wyoming 82601 (Address)

Legal /L.R.// T. R. D. UCp. Take

Approved

26-67
(Date)

S. GOVERNMENT PRINTING OFFICE 16-53598-

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Ω

Form 9-1123 (Rev. Dec. 1957)

(Submit in riplicate to appropriate Regional Oil and Gas or Mining Supervisor)

A-17

#### DESIGNATION OF OPERATOR

INDIAN APPAIRS

The undersigned is, on the records of the Bureau of the holder of lease

THERMY LAND OFFICE: Mavajo Agency, Window Rock, Arisona EXPERIENCE: Contract No: 14-20-0603-8165

and hereby designates

Borizon Oil & Gas Co. of Texas

Hartford Bldg.

NAME:

Dallas, Texas 75201

ADDRESS:

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

> Township 39 North, Range 23 East, G. &S.R.M. Section 24: Wi SWi

Containing 80 acres, Hore or Less Apache County, Arizona

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

COBIL OIL CORPORATION (Signature of lessee)
Attorney-In-Pact

Approved Legal / T. R.

P. O. Box 1652 Casper, Wyoming 82601 (Address)

412

May 29, 1967

Horizon Oil & Gas Co. P.O. Box 7 Spearman, Texas 79081

Attention: Mr. Everett R. Tracy, Production Manager

Re: Horizon Oil & Gas #1-24 Navajo-Mobil NW SW 24-39N-23E, Apache County, Arkona Permit 412

#### Gentlemen:

Enclosed are: Permit to Drill, approved copy of Application to Drill, filing receipt 9504, and two copies of your bond.

We do need a designation of operator from Mobil. For your convenience we have enclosed forms to accomplish this.

In addition, would you please advise the name and address of your drilling contractor.

If this office may be of assistance to you, please do not hesitate to contact us.

Very truly yours,

John Bannister Executive Secretary mr encs P. O. BOX 7
SPEARMAN, TEXAS
79081
May 24, 1967

United States Department of the Interior Geological Survey Box 959 Farmington, New Mexico 87401

> Re: Horizon Oil & Gas Co., #1-24 Navajo-Mobil Section 24, Township 39N, Range 23E, Apache County, Arizona.

Gentlemen:

Enclosed please find original and two copies of Form No. 9-331 C and Cartified Acreage Plats on the above captioned location.

Yours very truly,

HORIZON OIL & GAS CO.

Everett R. Tracy Production Manager

ERT: jf

cc: The Oil & Gas Conservation Commission 1624 West Adams Phoenix, Arizona 85000

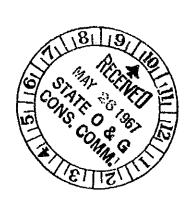
> J. Creig Coogan Ashland Oil & Refining Company Box 18965 Oklahoma City, Oklahoma 73100

N. Bruce Calder

file

bcc:

(Check in the amount of \$25.00 and Oil & Gas Conservation Comm. Appl. for Permit to Drill also enclosed.)



THE TRAVELERS INSURANCE COMPANY . THE TRAVELERS INDEMNITY COMPANY



May 17, 1967

DALLAS OFFICE First National Bank Building DALLAS, TEXAS 75202 Telephone: RIverside 7-8261

Oil and Gas Conservation Commission State of Arizona Phoenix, Arizona

Re: Bond No. 1315313 Horison Oil & Gas Co. of Texas

#### Gentlemen:

Enclosed, please find bond and copies of the above captioned, further described as being executed by the undersigned as Attorney-in-Fact in the penal amount of \$5,000.00, effective May 12, 1967, and properly countersigned by a Resident Agent of your State.

We trust you will find the bond suitable for filing with your Department, but if not, please advise and we will do the necessary.

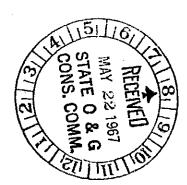
Yours very truly,

Julian I. Hazlewood,

Assistant Manager

JIH: gg

412



HOME OFFICE: HARTFORD, CONNECTICUT